

AMENDMENTS TO THE CLAIMS

This listing of claims replaces all prior versions, and listings, of claims in the application:

LISTING OF CLAIMS

1. (currently amended) A dry solid composition for generating chlorine dioxide gas consisting of a combination of at least one dry metal chlorite and at least one dry solid inorganic hydrophilic material selected from the group consisting of zeolites, hydrous clays, calcined clays, acidified zeolites, acidified clays, acidified calcined clays, ~~salts, solid acids~~ and mixtures thereof, with or without an effective amount of at least one desiccant, wherein a 30 weight percent mixture of the hydrophilic material in deionized water has a pH of no more than about 10.5, wherein said combination is one which passes both the Dry Air and Humid Air tests.

2. (currently amended) The composition of claim 9 1 wherein the dry metal chlorite is selected from the group consisting of alkali metal chlorites, alkaline earth metal chlorites and mixtures thereof.

3. (original) The composition of claim 2 wherein the alkali metal chlorite comprises sodium chlorite or potassium chlorite.

4. (original) The composition of claim 3 wherein the alkali metal chlorite comprises sodium chlorite.

5. (original) The composition of claim 2 wherein the alkaline earth metal chlorite is selected from the group consisting of barium chlorite, calcium chlorite and magnesium chlorite.

6. (canceled)

7. (currently amended) The composition of claim 9 1 wherein the mixture has a pH of less than 9.

8. (canceled)

9. (canceled)

10. (currently amended) The composition of claim 9 1 wherein the inorganic material is selected from the group consisting of zeolites and acidified zeolites.

11. (currently amended) The composition of claim 9 1 wherein the hydrous clay is selected from the group consisting of bentonite, kaolin, attapulgite and halloysite.

12. (currently amended) The composition of claim 9 1 wherein the calcined clay is selected from the group consisting of metakaolin, spinel phase kaolin, calcined bentonite, calcined halloysite and calcined attapulgite.

13. (currently amended) The composition of claim 9 1 wherein the acidified clay is selected from the group consisting of bentonite, kaolin, attapulgite and halloysite that have been contacted with one or more acidic solutions containing sulfuric acid, hydrochloric acid, nitric acid or other acidic compounds so that the pH of the aqueous phase of the mixture is below 10.5.

14. (currently amended) The composition of claim 9 1 wherein the acidified calcined clay is selected from the group consisting of metakaolin, spinel phase kaolin, calcined bentonite, calcined halloysite and calcined attapulgite that have been contacted with one or more acidic solutions containing sulfuric acid, hydrochloric acid,

nitric acid or other acidic compounds so that the pH of the aqueous phase of the mixture is below 10.5.

15. (currently amended) The composition of claim 4 12 wherein ~~the salts are deliquescent salts~~ the metakaolin is metakaolin microspheres.

16. (currently amended) The composition of claim 4 12 wherein ~~the salt comprises calcium chloride~~ the metakaolin is metakaolin microspheres having an average particle size of from about 50 to 100 microns.

17. (canceled)

18. (currently amended) The composition of claim 9 1 wherein the desiccant is present in an amount of about 0.1 to 25 weight %, based on the total weight of the composition.

19. (original) The composition of claim 18 wherein the desiccant is selected from the group consisting of activated calcium chloride, activated calcium sulfate, activated zeolite X, activated zeolite A, activated bentonite clay, activated silica gel, activated attapulgite and mixtures thereof.

20. (currently amended) The composition of claim 9 1 wherein the weight ratio of the metal chlorite to said dry solid hydrophilic material is in the range of about 0.001 to 0.25:1.0.

21. (currently amended) A dry solid composition for generating chlorine dioxide gas at a concentration from about 0.001 to 1,000 ppm consisting of a combination of at least one dry metal chlorite and at least one dry solid inorganic hydrophilic material selected from the group consisting of zeolites, hydrous clays, calcined clays, acidified

zeolites, acidified clays, acidified calcined clays, ~~salts, solid acids~~ and mixtures thereof, with or without an effective amount of at least one desiccant, wherein a 30 weight percent mixture of the hydrophilic material in deionized water has a pH of no more than about 10.5, wherein said combination is one which passes both the Dry Air and Humid Air tests.

22. (previously presented) The composition of claim 21 wherein the desiccant is selected from the group consisting of activated calcium chloride, activated calcium sulfate, activated zeolite X, activated zeolite A, activated bentonite clay, activated silica gel, activated attapulgite and mixtures thereof.

23. (currently amended) A dry solid composition for generating chlorine dioxide gas consisting of a combination of at least one dry metal chlorite and at least ~~one~~ two dry solid inorganic hydrophilic ~~material~~ materials with or without an effective amount of at least one desiccant, the dry solid inorganic hydrophilic ~~material~~ materials comprising a deliquescent salt and ~~the dry solid hydrophilic material~~ being selected from the group consisting of zeolites, hydrous clays, calcined clays, acidified zeolites, acidified clays, acidified calcined clays, ~~salts, solid acids~~ and mixtures thereof, wherein a 30 weight percent mixture of the hydrophilic ~~material~~ materials in deionized water has a pH of no more than about 10.5, wherein said combination is one which passes both the Dry Air and Humid Air tests.

24. (previously presented) The composition of claim 23 wherein the desiccant is selected from the group consisting of activated calcium chloride, activated calcium sulfate, activated zeolite X, activated zeolite A, activated bentonite clay, activated silica gel, activated attapulgite and mixtures thereof.

25. (canceled)

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26. (canceled)